

FIG. 1

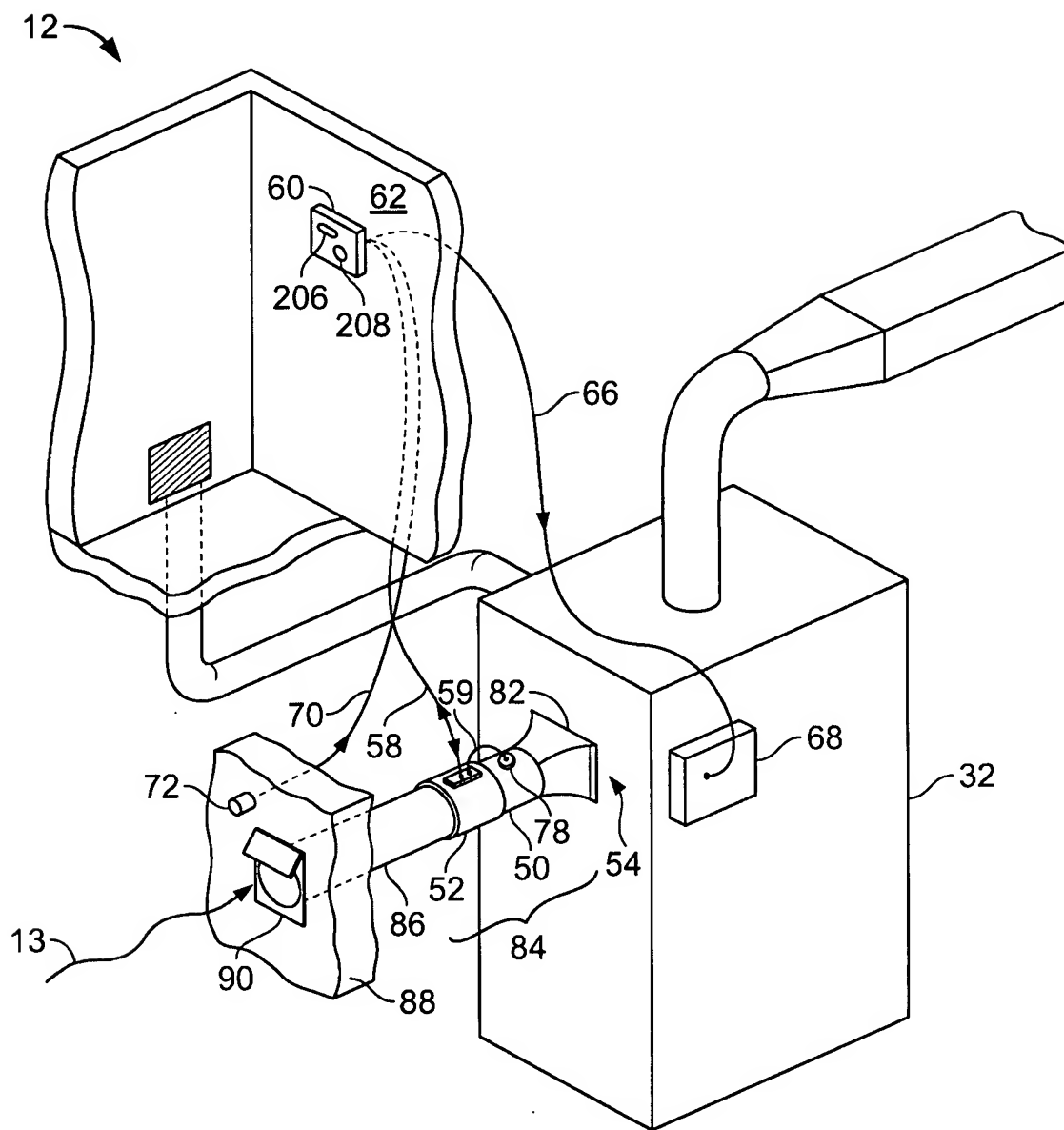


FIG. 2

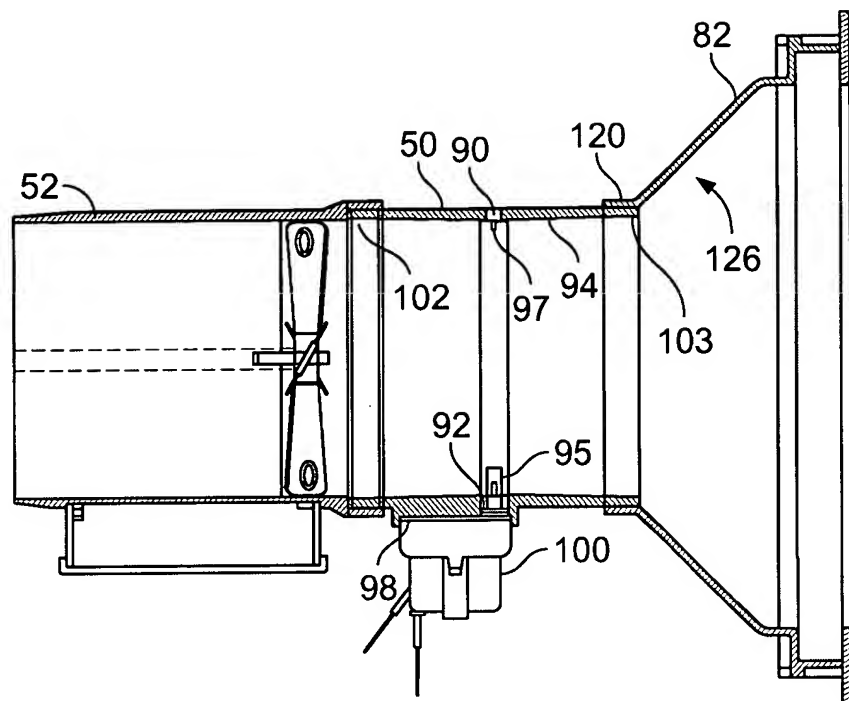


FIG. 3

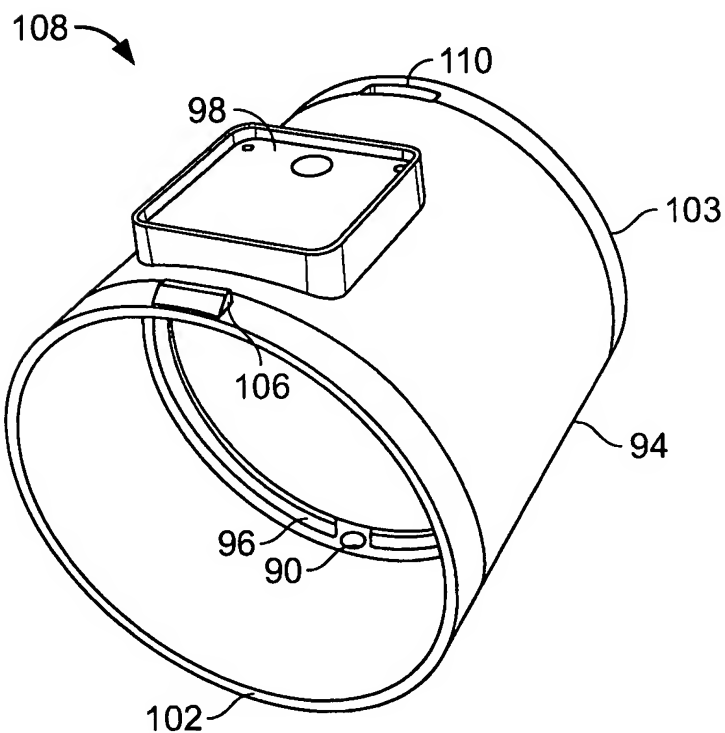


FIG. 4

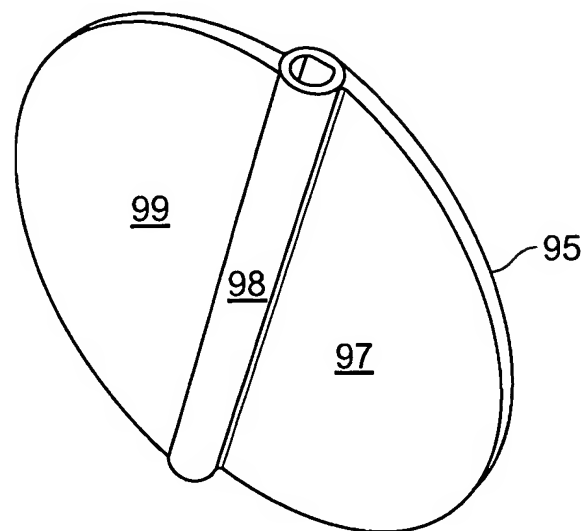


FIG. 5

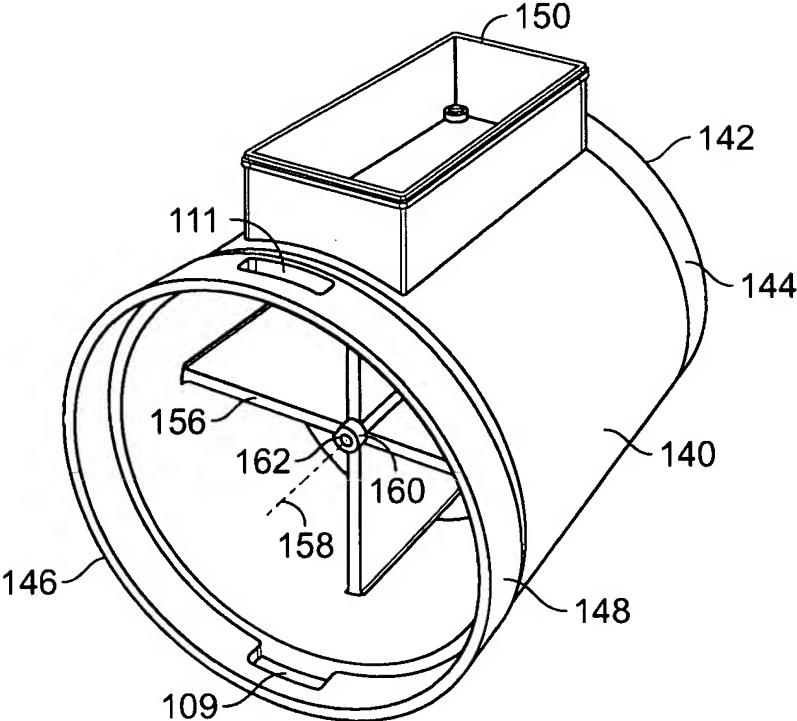


FIG. 6

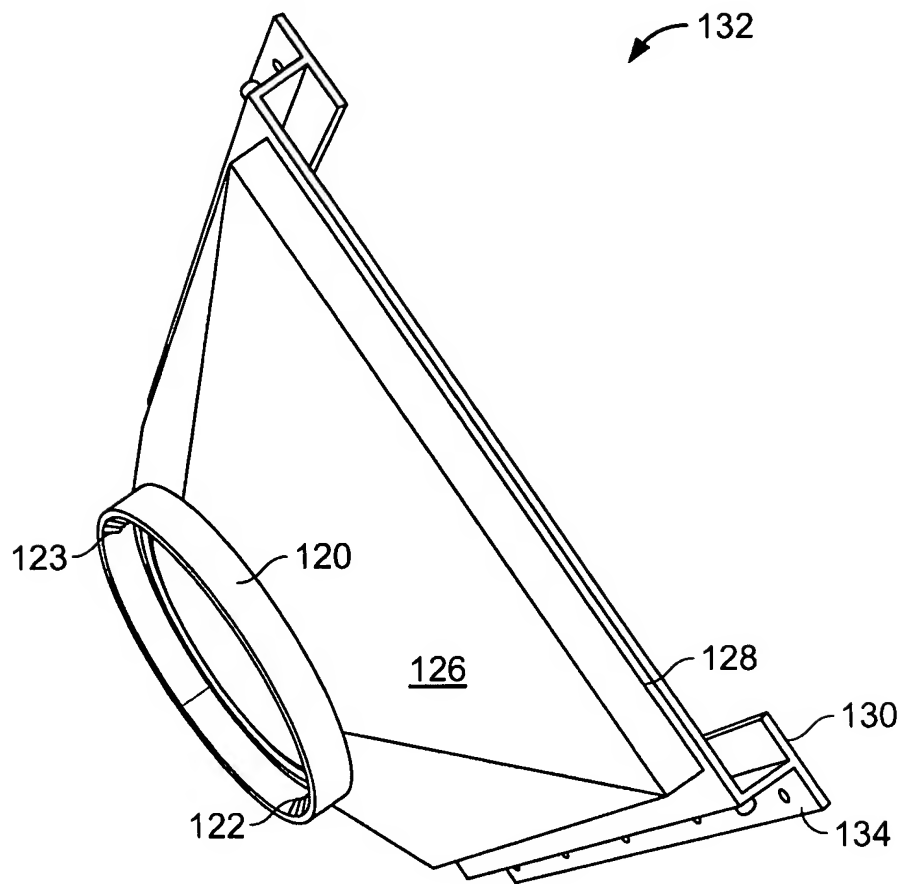


FIG. 7

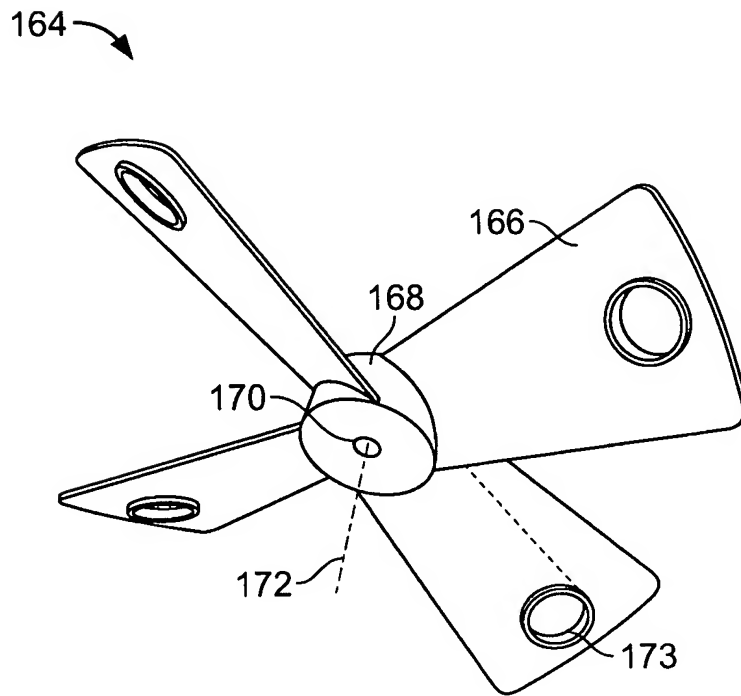


FIG. 8

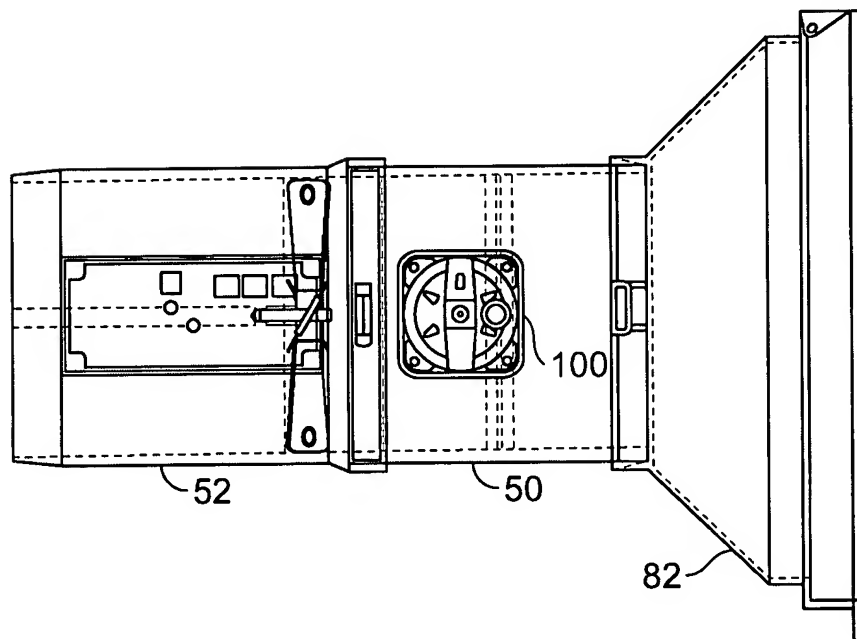
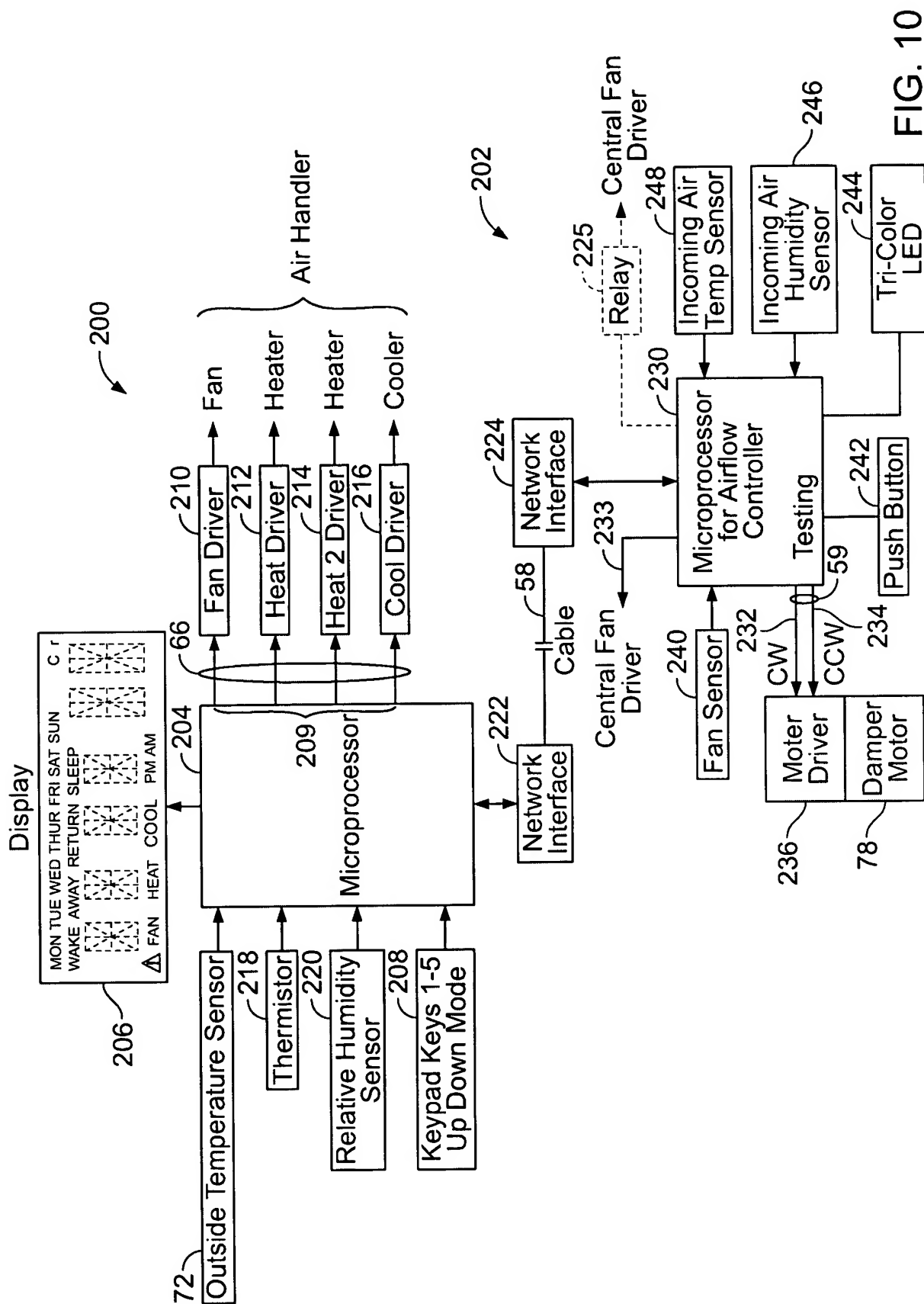


FIG. 9



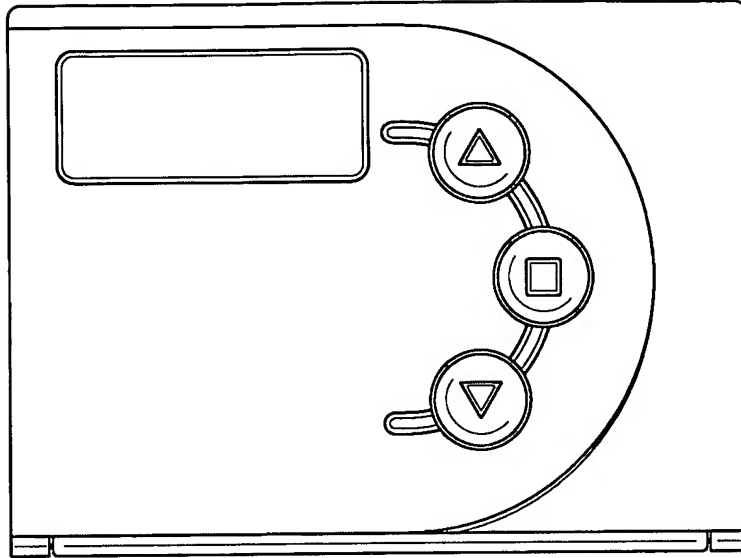


FIG. 11A

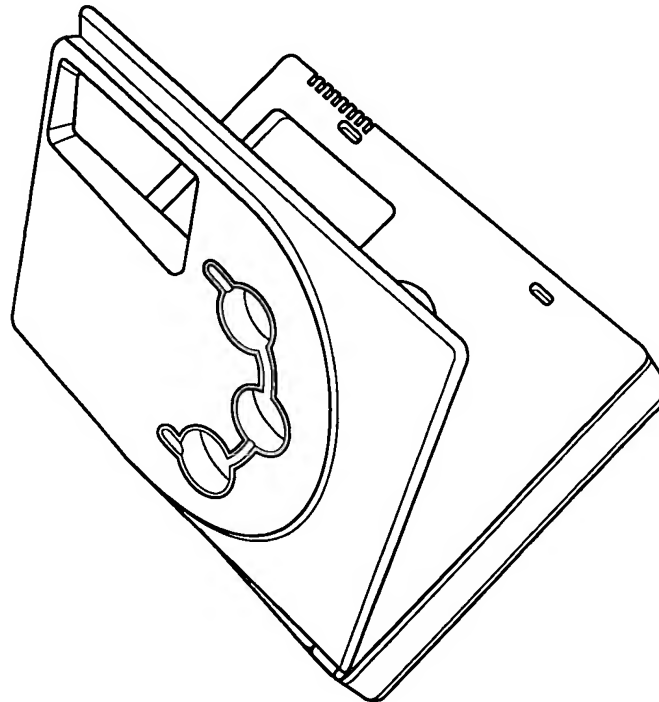


FIG. 11B

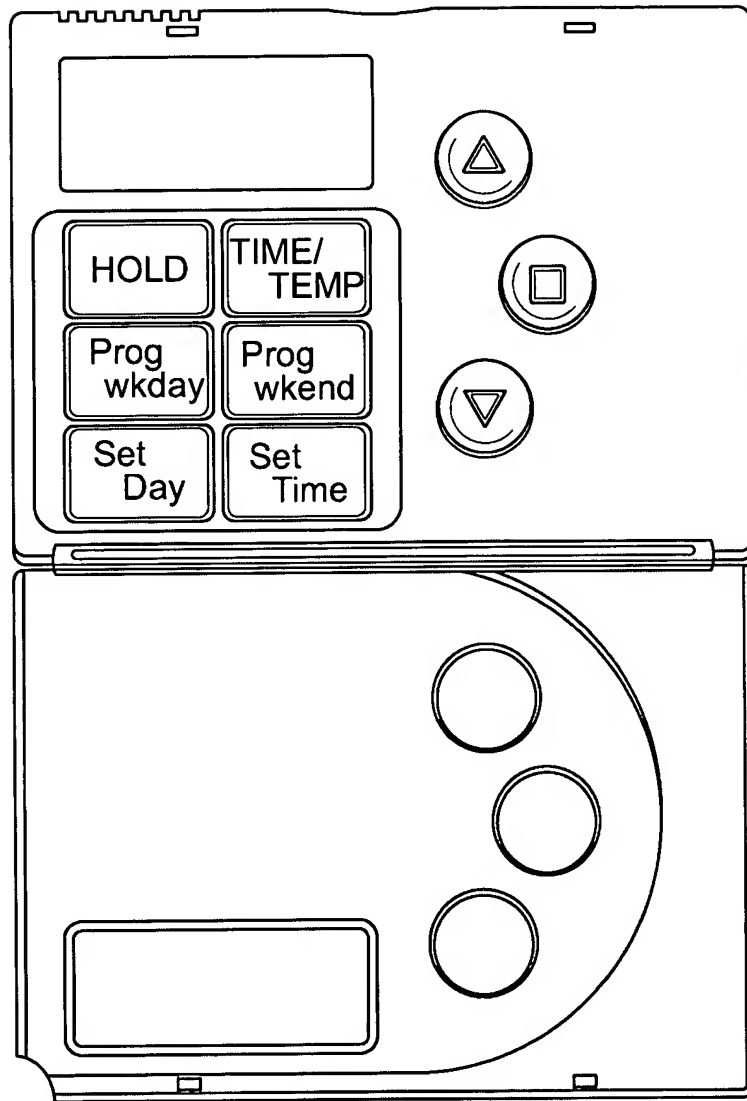
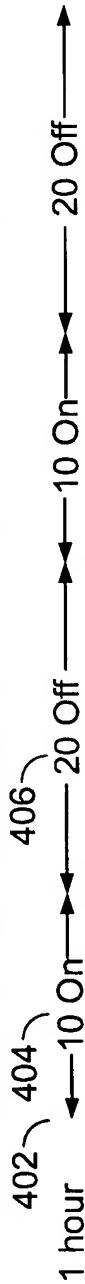


FIG. 11C

Desired fan duty cycle = 33%
 Desired period = 30 Minutes

Example: Fan on = 10 minutes
 Fan off = 20 minutes

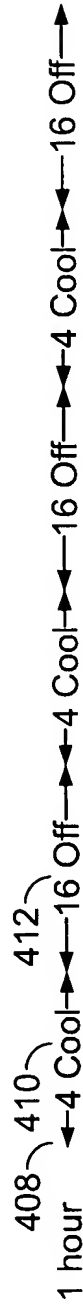
No call for heating or cooling



Example: Air-conditioning is on.

There is a 4 minute call
 for cooling then another
 call for cooling after 16 minutes

Total run time was 8 minutes
 first half hour, 4 minutes second half
 hour or an average of 12 minutes/hour.
 Error = 40%



20 Minutes off time is never met to force fan on, short on time was not taken into account

FIG. 12

Desired fan duty cycle = 33%
Desired period = 30 Minutes

Fan period = 30 Minutes
 Fan min run time = 10 Minutes
 Same target as example 1.

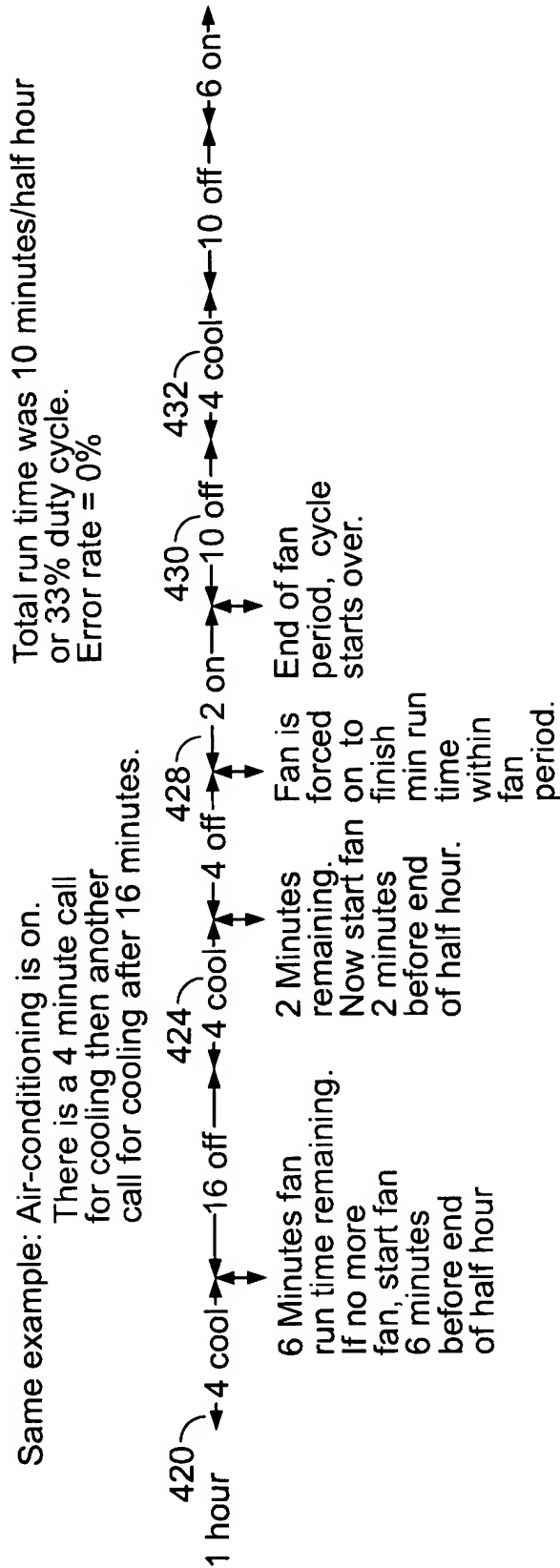


FIG. 13

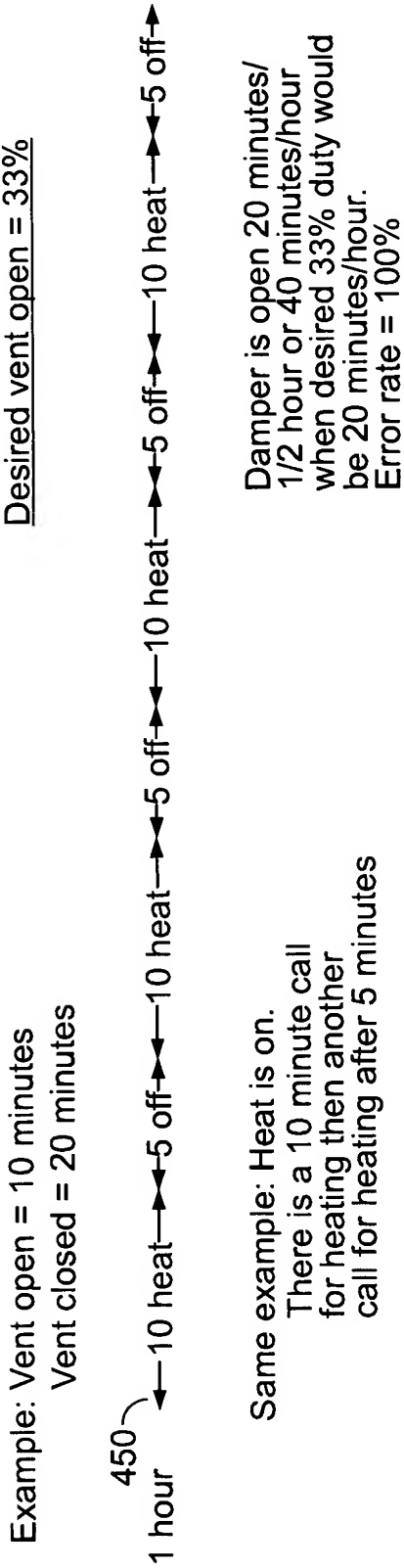


FIG. 14

Vent timing - new method, measure flow volume.

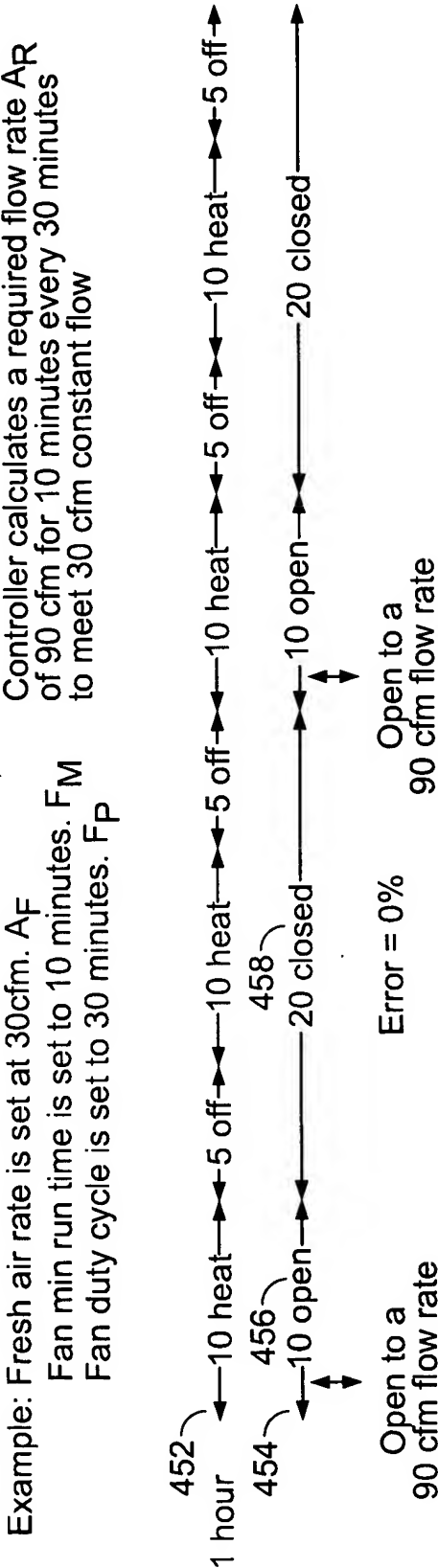


FIG. 15

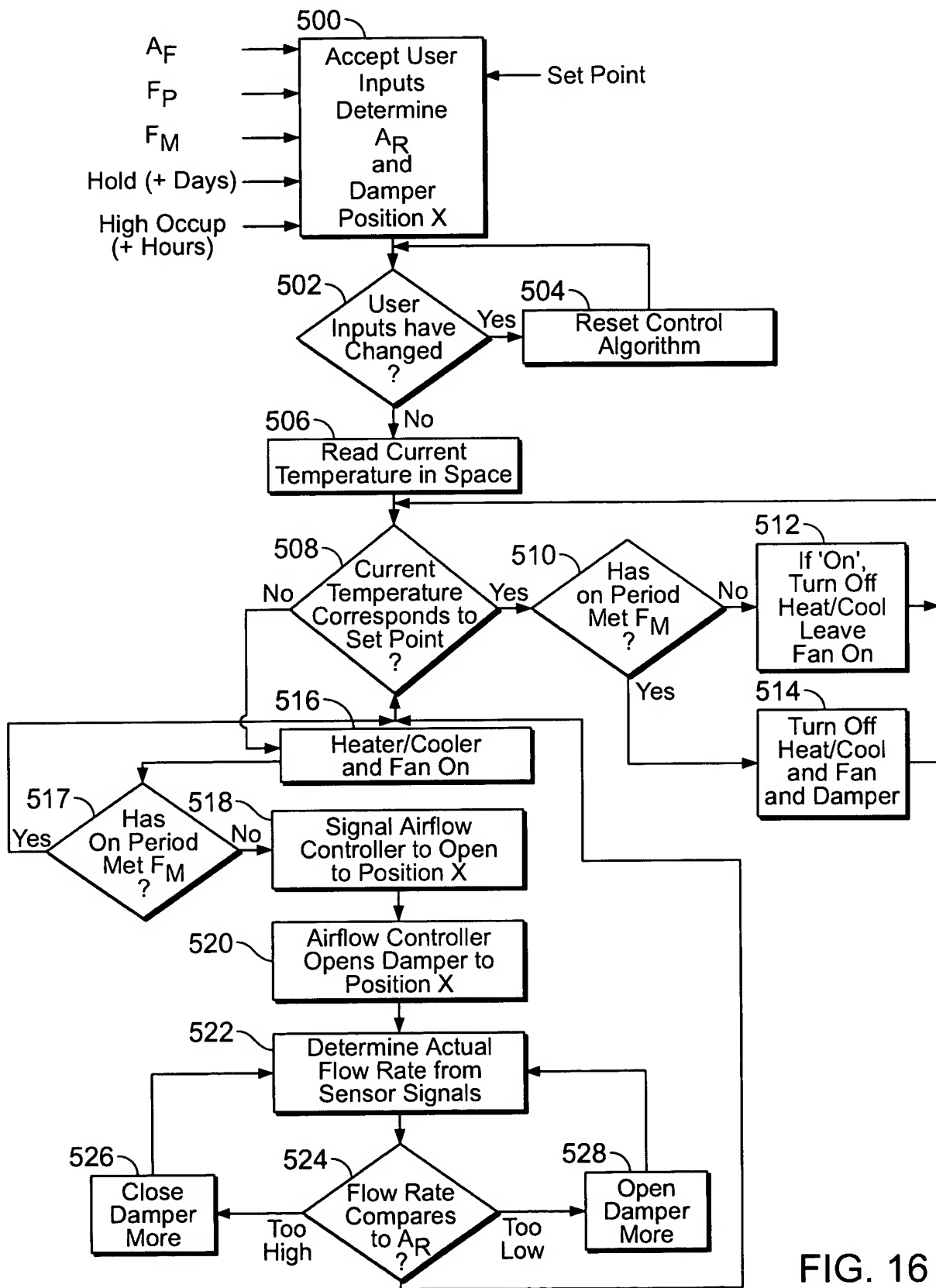


FIG. 16